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NASA Policy Directive

NPD 8500.1A

Effective Date: April 06, 2000

Expiration Date: April 06, 2009

COMPLIANCE IS MANDATORY[Printable Format \(PDF\)](#)

Subject: NASA Environmental Management (Revalidated 4/27/04)**Responsible Office: Environmental Management Division**

1. POLICY

- a. Enable the success of Agency missions, services, and activities, as defined in the NASA Strategic Plan, while maintaining environmental stewardship of assets, controls over environmental responsibilities, and compliance with applicable law. The Administrator's issuance on "Environmental Excellence for the Twenty-First Century" of May 1994 defines NASA's environmental strategy and sets forth a framework for meeting today's environmental needs and preparing for future challenges. The strategy consists of four focus areas: prevention, compliance, restoration, and conservation.
- b. Comply with all applicable requirements of Federal law, regulations, and Executive Orders; NASA's self-established requirements and agreements with other agencies, industry, and/or organizations; and with State, local, or territorial environmental laws and regulations properly applicable to Federal entities. Environmental requirements may encompass issues related to environmental management, including, but not necessarily limited to, hazardous waste management, restoration, remediation of contaminated sites, environmental justice, pollution prevention, water and air management, energy conservation, and protection of cultural and natural resources.
- c. In program and project management, as defined in NASA Policy Directive (NPD) 7120.4 and NASA Procedural Requirements (NPR) 7120.5, consider environmental factors throughout the life cycle of a program, including planning, development, execution, and disposition activities. Examples of environmental factors include consideration of environmental impacts as required by the National Environmental Policy Act (NEPA), the proposed use of hazardous materials, the potential for waste generation, the need to acquire necessary permits, waivers and authorizations, and the overall environmental preferability of selected materials and processes.
- d. As part of addressing environmental factors, include in the life cycle analysis of costs the potential environmental impacts of programmatic activities and their supporting institutional processes.
- e. Foster and actively support environmentally related technology transfer.
- f. Actively partner with Federal, State, and local regulatory agencies, as appropriate, to leverage available resources and comply with environmental requirements, prevent pollution, reduce waste generation, and manage natural resources in the most efficient and effective manner possible.
- g. Promote continual improvement in carrying out the Agency's environmental management responsibilities.

2. APPLICABILITY

This policy applies to NASA Headquarters and Centers, including Component Facilities, and to the Jet Propulsion Laboratory (JPL) to the extent specified in its contract.

3. AUTHORITY

42 U.S.C. 2473(c)(1), Section 203(c)(1) of the National Aeronautics and Space Act of 1958, as amended.

4. REFERENCES

Applicable Federal Statutes, Executive Orders, and Office of Management and Budget Circulars are listed in Attachment A. Other applicable references appear in Attachment B.

Note: See the URL for Graphic at the end of this directive for the hierarchy of NASA Environmental Management

Plans, Directives, and Procedural Requirements.

5. RESPONSIBILITY

a. Every NASA employee is responsible for complying with environmental regulations and NASA policy related to official duties.

b. Each NASA organizational element has responsibility for incorporating this environmental policy into planning and budgeting; allocating and maintaining appropriate levels of authority and funding; assuring appropriate training; overseeing environmental process and material selection; minimizing hazardous waste; and stewardship for energy and water usage.

c. The Assistant Administrator for Institutional and Corporate Management executes the following activities through the Deputy Assistant Administrator for Institutional and Corporate Management and the Director, Environmental Management Division:

(1) Through the Institutional and Corporate Management Functional Leadership Plan, developing and executing the Agency's environmental management strategy and Agencywide environmental policy and guidance.

(2) In cooperation with and support of the Enterprise Institutional Program Officers, advocating, supporting, managing, allocating, and assigning environmental resources as defined and budgeted by the Agency, including applicable financial fiduciary responsibilities.

(3) Advocating and supporting the effective development and execution of environmental and energy conservation training, to include professional development and education initiatives that will promote the knowledge and proficiency of the NASA workforce in environmental and energy conservation and efficiency management requirements, concepts, and techniques.

(4) Serving as Chair for the NASA Environmental Management Board (EMB).

(5) Serving as the NASA senior official for external Agency-level interfaces on domestic environmental matters and supporting the Office of External Relations and the Office of the General Counsel on international environmental matters.

(6) Providing functional oversight and conducting functional reviews to ensure that environmental activities are conducted in accordance with statutory, regulatory, and financial fiduciary requirements. Functional review results will be reported to Center Directors and cognizant Institutional Program Officers, and when Agencywide issues, problems, successes, and opportunities are involved, to the EMB.

(7) Providing technical advice, assistance, and consultation to responsible managers based on overall awareness and insight of Agency program execution and national requirements.

(8) Supporting the Occupational Health and Safety Board (OHSB) in managing the overall NASA Occupational Health Program via the OHSB Health, Environmental Management, and Safety Subcommittee (HEMSS).

(9) Ensuring the appropriate coordination and approval of Principal Centers to lead or oversee designated environmental initiatives or activities.

(10) Ensuring balance and synergy in addressing environmental management needs across NASA Enterprises.

d. Institutional Program Officers are responsible for the following:

(1) Representing the position of their Enterprise on matters that come before the EMB for resolution and serving as a voting member on the Board.

(2) Ensuring that NASA Centers under their management cognizance have the capability to meet environmental and energy conservation commitments.

(3) Advocating environmental and energy conservation funding requirements and allocating resources for activities conducted within their Enterprise and by Centers under their management cognizance.

(4) Ensuring implementation of environmental and energy conservation policy and EMB decisions by Centers and facilities under their management cognizance.

e. Center Directors are responsible for the following:

(1) Ensuring that the Center and each Component Facility under their management cognizance have a designated environmental manager with a direct line of authority from the appropriate Center official.

(2) Ensuring that the Center and each Component Facility under their management cognizance have a designated energy manager with a direct line of authority from the appropriate Center official.

(3) Providing sufficient qualified staff and resources required to perform environmental and energy conservation

activities.

(4) Ensuring effective development and execution of environmental and energy conservation training, to professional professional development and education initiatives, that will promote the knowledge and proficiency of the NASA Workforce in environmental and energy conservation and efficiency management concepts and techniques.

(5) Implementing Agency environmental and energy conservation functional leadership activities, policies, regulations, and procedural requirements.

(6) Reviewing and overseeing all environmental and energy activities.

(7) In collaboration with NASA Headquarters Office of Institutional and Corporate Management, establishing oversight and evaluating Center operations through functional reviews, performance metrics, or other means to ascertain that appropriate environmental compliance and management techniques are used for the identification, documentation, evaluation, and disposition of all environmental requirements for programs, projects, facilities, systems and operations.

f. Program and project managers are responsible for the following:

(1) Implementing environmental policies and requirements within existing programs and projects including life-cycle planning, development, execution, and disposition activities.

(2) Ensuring that requirements of NEPA are satisfied for any proposed new or modified programs and projects.

(3) Coordinating with the local environmental managers on both existing and new programs and projects to ensure compliance with law and the effective implementation of environmental requirements.

g. Center and Component Facility environmental managers are responsible for the following:

(1) Advocating, managing, and allocating assigned environmental program resources, both for ECR and Center resources.

(2) Serving as the local source of expertise on environmental policies, procedures, requirements, and processes.

(3) Supporting functional reviews as necessary to ensure that Center programs, projects, facilities, systems, and operations comply with all environmental requirements.

(4) Coordinating with all internal organizations to ensure compliance with the law and effective implementation of environmental policies, procedures, and processes.

(5) Serving on the NASA EMB as a voting member and participating in Environmental Management Panel working group activities as coordinated and approved by local and Headquarters Senior Management.

(6) Reporting information regarding environmental management activities to the Assistant Administrator for Institutional and Corporate Management or designee.

h. Center and Component Facility energy managers are responsible for the following:

(1) Serving as the local source of expertise on energy conservation and water conservation policies, procedural requirements, and processes.

(2) Conducting annual self-assessments on energy conservation and efficiency management. Self-assessment results will be reported to the Center Director, the cognizant Institutional Program Officer, and the Associate Administrator for Management Systems. Self-assessment results will be reported to the EEB when Agencywide issues, problems, successes, and opportunities are involved.

(3) Coordinating with all internal organizations to ensure compliance with the law and effective implementation of energy conservation policies and procedural requirements.

(4) Serving on the EEB as a voting member and participating in EEB working group activities as coordinated and approved by local and Headquarters Senior Management.

(5) Collecting and providing input to mandatory Agency energy conservation plans, reports, and budget exhibits.

(6) Reporting information regarding energy conservation activities to the Assistant Administrator for Institutional and Corporate Management or designee.

6. DELEGATION OF AUTHORITY

None.

7. MEASUREMENTS

The majority of environmental and energy regulations include specific requirements to assess compliance. These requirements are monitored by external regulatory agencies to ensure compliance with requirements of the relevant laws. NASA's internal metrics for environmental management cover prevention, compliance, restoration, and conservation measures detailed in the Environmental Management Division's Annual Operating Plan and summarized in the Office of Institutional and Corporate Management Functional Plan.

8. CANCELLATION

NPD 8500.1 dated April 6, 2000.

REVALIDATED

April 27, 2004

/s/ Daniel S. Goldin
Administrator

ATTACHMENT A:

APPLICABLE FEDERAL STATUTES, EXECUTIVE ORDERS, AND OFFICE OF MANAGEMENT AND BUDGET CIRCULARS

FEDERAL STATUTES

1. Abandoned Shipwreck Act (43 U.S.C. 2101 et seq.).
2. American Indian Religious Freedom Act (42 U.S.C. 1996 et seq.).
3. Antiquities Act of 1906 (16 U.S.C. 431 et seq.).
4. Archeological and Historic Preservation Act (16 U.S.C. 469-469c).
5. Archeological Resources Protection Act (16 U.S.C. 470aa-mm).
6. Bald Eagle Protection Act (16 U.S.C. 668-668d).
7. Clean Air Act (42 U.S.C. 7401 et seq.).
8. Clean Water Act (33 U.S.C. 1251 et seq.).
9. Coastal Barrier Resources Act (16 U.S.C. 3501 et seq.).
10. Coastal Zone Management Act of 1972 (16 U.S.C. 1451 et seq.).
11. Comprehensive Environmental Response, Compensation, and Liability Act (42 U.S.C. 9601 et seq.).
12. Emergency Planning and Community Right-To-Know Act (42 U.S.C. 11001 et seq.).
13. Endangered Species Act (16 U.S.C. 1531 et seq.).
14. Energy Policy and Conservation Act (42 U.S.C. 6201 et seq.).
15. Energy Policy Act of 1992 (Public Law 102-486, 106 Stat. 2776).
16. Farmland Protection Policy Act (7 U.S.C. 4201 et seq.).
17. Federal Insecticide, Fungicide, and Rodenticide Act (7 U.S.C. 136 et seq.).
18. Fish and Wildlife Coordination Act (16 U.S.C. 661 et seq.).
19. Historic Sites Act of 1935 (16 U.S.C. 461 et seq.).
20. Marine Mammal Protection Act (16 U.S.C. 1361 et seq.).
21. Migratory Bird Treaty Act (16 U.S.C. 703 et seq.).
22. National Energy Conservation Policy Act (42 U.S.C. 8251 et seq.).
23. National Environmental Policy Act (42 U.S.C. 4321 et seq.).
24. National Historic Preservation Act (16 U.S.C. 470 et seq.).
25. Native American Graves Protection and Repatriation Act (25 U.S.C. 3001-3013).
26. Pollution Prevention Act of 1990 (42 U.S.C. 13101 et seq.).
27. Rivers and Harbors Act (33 U.S.C. 401 et seq.).
28. Safe Drinking Water Act (42 U.S.C. 300f et seq.).
29. Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act (42 U.S.C. 6901 et seq.).
30. Toxic Substances Control Act (15 U.S.C. 2601 et seq.).
31. Wild and Scenic Rivers Act (16 U.S.C. 1271 et seq.).
32. Wilderness Act (16 U.S.C. 1131 et seq.).

EXECUTIVE ORDERS

1. Executive Order 11514 (Amended by Executive Order 11991): Protection and Enhancement of Environmental Quality.
2. Executive Order 11593: Protection and Enhancement of the Cultural Environment.

3. Executive Order 11912: Delegation of Authorities Relating to Energy Policy and Conservation.
4. Executive Order 11988: Floodplain Management.
5. Executive Order 11990: Protection of Wetlands.
6. Executive Order 12003: Relating to Energy Policy and Conservation.
7. Executive Order 12088 (Amended by Executive Order 12580): Federal Compliance With Pollution Control Measures.
8. Executive Order 12114: Environmental Effects Abroad of Major Federal Actions.
9. Executive Order 12372: Intergovernmental Review of Federal Programs.
10. Reserved.
11. Reserved.
12. Executive Order 12898: Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations.
13. Executive Order 13006: Locating Federal Facilities on Historic Properties in Our Nation's Central Cities.
14. Executive Order 13007: Indian Sacred Sites.
15. Reserved.
16. Executive Order 13061: Federal Support of Community Efforts Along American Heritage Rivers.
17. Executive Order 13089: Coral Reef Protection.
18. Executive Order 13101: Greening the Government Through Waste Prevention, Recycling and Federal Acquisition.
19. Executive Order 13123: Greening the Government Through Efficient Energy Management.

OFFICE OF MANAGEMENT AND BUDGET (OMB) CIRCULARS

1. OMB Circular A-11: Preparation and Submission of Budget Estimates.
2. Reserved.
3. OMB Circular A-119: Federal Participation in the Development and Use of Voluntary Standards.

APPLICABLE REFERENCES

1. NPD 1000.1, NASA Strategic Plan.
2. NPR 1000.2, NASA Strategic Management System.
3. NPR 1000.3, The NASA Organization.
4. NPD 1440.6, NASA Records Management.
5. NPR 1441.1, NASA Records Retention Schedules.
6. NPD 1800.2, NASA Occupational Health Program.
7. NPD 7120.4, Program/Project Management.
8. NPR 7120.5, NASA Program and Project Management Processes and Requirements
9. NPD 8700.1, NASA Policy for Safety and Mission Success.
10. NPD 8710.1, Emergency Preparedness Program Policy.
11. NPD 8800.14, Policy for Real Property Management.
12. Reserved.
13. Reserved.
14. Reserved.
15. NPR 8830.1, Affirmative Procurement Plan for Environmentally Preferable Products.
16. Reserved.
17. Reserved.
18. Reserved.
19. NPR 8850.1, Environmental Investigation and Remediation - Potentially Responsible Party Identification and Analysis.
20. NASA Environmental Excellence for the Twenty-First Century, dated May 1994(NASA Administrator's Statement).
21. NASA Environmental Justice Strategy, dated March 1995.
22. Office of Institutional and Corporate Management Functional Office Implementation Plan: Implementing NASA's Strategies for the 21st Century, dtd May 1998.

(URL for Graphic)

[Attachment B - Applicable References](#)

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